

Listing of All Claims Including Current Amendments

1-10. (canceled)

11. (Currently Amended) An apparatus for treating particulate material, comprising:

- a container having a process chamber for containing said particulate material and a container central duct separated from said process chamber, said container further having a longitudinal mid-axis;
- said process chamber being arranged around said longitudinal mid-axis of said container and being formed as an annular chamber, said process chamber further having a lower region and an upper region which is open;
- said container central duct forming a flow duct for process air flowing from an upper end of said container central duct to a lower end of said container central duct, and immediately opening into said lower region of said process chamber, and communicating with said upper open region of said process chamber so as to conduct said process air in at least one first operating state, by said container central duct widening circumferentially and opening towards said upper region of said process chamber;

wherein, in a lower region of said container central duct, a fan is arranged immediately adjacent to a location where said container central duct opens into said lower region of said process chamber, [[and]] wherein said fan has substantially vertical fan blades which extend to different radial extents[.]; and wherein said process chamber is rotatably fixed relative to said container central duct about said container longitudinal mid-axis.

12-15. (canceled)

16. (Original) The apparatus of claim 11, wherein said container is connectable to an external process air feed system and has a feed air duct which is connected to said container central duct.

17. (Currently amended) The apparatus of claim 16, wherein at least one of a valve and a ~~bulkheadgate~~ is provided in order to connect said feed air duct to said container central duct so as to conduct said process air or to seal off said container central duct with respect to said feed duct.

18. (Currently amended) The apparatus of claim 17, wherein, in an operating state in which said feed air duct is connected to said container central duct so as to conduct said process air, said at least one of said valve and said ~~bulkheadgate~~ seals off said container central duct in a substantially airtight manner with respect to said open upper region of said process chamber.

19. (Currently amended) The apparatus of claim 16, wherein at least one of a valve and a ~~bulkheadgate~~ is provided in order to connect said feed air duct to said container central duct so as to conduct said process air or to seal off said container central duct with respect to said feed air duct, and wherein said at least one of said valve or said ~~bulkheadgate~~ has at least one operating position in which both said feed air duct is connected to said container central duct and said container central duct is connected to said open upper region of said process chamber, both so as to conduct process air.

20. (Original) The apparatus of claim 11, wherein said container is connectable to an external process air feed system and has a feed air duct which is connected to said container central duct, and wherein above said process chamber there is arranged a filter which is connected into the flow path of said feed air duct.

21. (Original) The apparatus of claim 20, wherein said feed air duct has a first shoe arranged above said filter and covering a sector of said filter, and the second shoe opposite said first shoe and underneath said filter, which is connected to said container central duct, and wherein said first and said second shoe can be set into a circulating movement on said filter.

22. (Original) The apparatus of claim 11, wherein at least one first spray nozzle for spraying a first moist medium is arranged in a lower opening area of said container central duct into said process chamber, its spraying direction being oriented substantially into said process chamber.

23. (Previously presented) The apparatus of claim 11, wherein at least one first spray nozzle for spraying a first moist medium is arranged on said fan and revolves with said fan.

24. (Original) The apparatus of claim 23, wherein said spraying direction of said at least one spray nozzle is oriented substantially backwards as based on a direction of rotation of said fan.

25. (Original) The apparatus of claim 24, wherein at least one second spray nozzle for spraying a second moist medium onto said material is arranged in said lower region of said process chamber and whose spraying direction is oriented substantially vertically and tangentially in a direction of rotation of said fan.

26. (Previously Presented) An apparatus for treating particulate material, comprising:
- a container having a process chamber for containing said particulate material and a container central duct separated from said process chamber, said container further having a longitudinal mid-axis;

- said process chamber being arranged around said longitudinal mid-axis of said container and being formed as an annular chamber, said process chamber further having a lower region and an upper region which is open;
- said container central duct forming a flow duct for process air and opening into said lower region of said process chamber, and communicating with said upper region of said process chamber so as to conduct process air in at least one first operating state;
- a fan arranged in a lower region of said container central duct for producing a flow of said process air in said container central duct from top to bottom and arranged immediately adjacent to an opening area of said container central duct into said process chamber, wherein said fan has fan blades whose radially outer ends at least partly project into said opening area of said container central duct into said process chamber;
- wherein said radially outer ends of said fan blades are curved backwards as viewed in a direction of rotation of said fan.

27-28. (canceled)

29. (Original) The apparatus of claim 26, wherein said fan has fan blades which extend to different radial extents.

30. (Original) The apparatus of claim 26, wherein at least one first spray nozzle for spraying a first moist medium is arranged on said fan and revolves with said fan.

31. (Original) The apparatus of claim 30, wherein a spraying direction of said at least one spray nozzle is oriented substantially backwards as based on a direction of rotation of said fan.

32. (Original) The apparatus of claim 30, wherein at least one second spray nozzle for spraying a second moist medium onto said material is provided, which is arranged in

said lower region of said process chamber and whose spraying direction is oriented substantially vertically and tangentially in a direction of rotation of said fan.

33. (Previously presented) An apparatus for treating particulate material, comprising:
- a container having a process chamber for containing said particulate material and a container central duct separated from said process chamber, said container further having a longitudinal mid-axis;
 - said process chamber being arranged around said longitudinal mid-axis of said container and being formed as an annular chamber, said process chamber further having a lower region and an upper region which is open;
 - said container central duct forming a flow duct for process air and opening into said lower region of said process chamber, and communicating with said upper open region of said process chamber so as to conduct said process air in at least one first operating state, by said container central duct widening circumferentially and opening towards said upper region of said process chamber;
 - wherein said container is connectable to an external process air feed system and has a feed air duct which is connected to said container central duct, and wherein above said process chamber there is arranged a filter which is connected into the flow path of said feed air duct.

34. (Previously presented) The apparatus of claim 33, wherein said feed air duct has a first shoe arranged above said filter and covering a sector of said filter, and the second shoe opposite said first shoe and underneath said filter, which is connected to said container central duct, and wherein said first and said second shoe can be set into a circulating movement on said filter.

35. (Canceled)

36. (Currently amended) An apparatus for treating particulate material, comprising:

- a container having a process chamber for containing said particulate material and a container central duct separated from said process chamber, said container further having a longitudinal mid-axis;
- said process chamber being arranged around said longitudinal mid-axis of said container and being formed as an annular chamber, said process chamber further having a lower region and an upper region which is open;
- said container central duct forming a flow duct for process air and opening into said lower region of said process chamber, and communicating with said upper region of said process chamber so as to conduct process air in at least one first operating state;
- a fan arranged in a lower region of said container central duct for producing a flow of said process air in said container central duct from top to bottom and arranged immediately adjacent to an opening area of said container central duct into said process chamber, wherein said fan has fan blades whose radially outer ends at least partly project into said opening area of said container central duct into said process chamber;
- wherein said process chamber is rotatably fixed relative to said container central duct about said container longitudinal mid-axis.
- wherein said container is connectable to an external process air feed system and has a feed air duct which is connected to said container central duct; and
- wherein at least one of a valve and a bulkheadgate is provided in order to connect said feed air duct to said container central duct so as to conduct said process air or to seal off said container central duct with respect to said feed duct.

37. (Currently amended) The apparatus of claim 36, wherein, in an operating state in which said feed air duct is connected to said container central duct so as to conduct said process air, said at least one of said valve and said bulkheadgate seals off said container central duct in a substantially airtight manner with respect to said open upper region of said process chamber.

38. (Currently amended) An apparatus for treating particulate material, comprising:

- a container having a process chamber for containing said particulate material and a container central duct separated from said process chamber, said container further having a longitudinal mid-axis;
- said process chamber being arranged around said longitudinal mid-axis of said container and being formed as an annular chamber, said process chamber further having a lower region and an upper region which is open;
- said container central duct forming a flow duct for process air and opening into said lower region of said process chamber, and communicating with said upper region of said process chamber so as to conduct process air in at least one first operating state;
- a fan arranged in a lower region of said container central duct for producing a flow of said process air in said container central duct from top to bottom and arranged immediately adjacent to an opening area of said container central duct into said process chamber, wherein said fan has fan blades whose radially outer ends at least partly project into said opening area of said container central duct into said process chamber;
- wherein said process chamber is rotatably fixed relative to said container central duct about said container longitudinal mid-axis.
- wherein said container is connectable to an external process air feed system and has a feed air duct which is connected to said container central duct; and
- wherein at least one of a valve and a bulkheadgate is provided in order to connect said feed air duct to said container central duct so as to conduct said process air or to seal off said container central duct with respect to said feed air duct, and wherein said at least one of said valve or said bulkheadgate has at least one operating position in which both said feed air duct is connected to said container central duct and said container central duct is connected to said open upper region of said process chamber, both so as to conduct process air.

39. (canceled)

40. (Previously Presented) An apparatus for treating particulate material, comprising:
- a container having a process chamber for containing said particulate material and a container central duct separated from said process chamber, said container further having a longitudinal mid-axis;
 - said process chamber being arranged around said longitudinal mid-axis of said container and being formed as an annular chamber, said process chamber further having a lower region and an upper region which is open;
 - said container central duct forming a flow duct for process air and opening into said lower region of said process chamber, and communicating with said upper region of said process chamber so as to conduct process air in at least one first operating state;
 - a fan arranged in a lower region of said container central duct for producing a flow of said process air in said container central duct from top to bottom and arranged immediately adjacent to an opening area of said container central duct into said process chamber, wherein said fan has fan blades whose radially outer ends at least partly project into said opening area of said container central duct into said process chamber;
 - wherein said container is connectable to an external process air feed system and has a feed air duct which is connected to said container central duct, and wherein above said process chamber there is arranged a filter which is connected into the flow path of said feed air duct;
 - wherein said feed air duct has a first shoe arranged above said filter and covering a sector of said filter, and the second shoe opposite said first shoe and underneath said filter, which is connected to said container central duct, and wherein said first and said second shoe can be set into a circulating movement on said filter.